

Appendix A

Boring Logs

Boring logs for the remaining sample locations collected via soil core are included in this Appendix. Sample locations with “SW” or “BS” in their identification are excavation confirmation samples collected during the Site 107 Remedial Action and do not have a corresponding boring log.

Soil Boring/Well Details: 107_MO18E2

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
1.0	40	0.0	0.0	1		Brown to black GRAVEL, some Sand, little Silt, trace concrete and COPR.			-1
				2		Dark red brown cf SAND, some to little Silt, trace Gravel and COPR.			-2
				3		Red brown mf SAND, some Gravel, little Silt.			-3
3.0				4		Black cf SAND, some Gravel, little Silt, trace Coal and Ash.			-4
3.5				5		Brown fine SAND and SILT, little Gravel, trace Coal and COPR.			-5
4.0	29	0.0	0.0	6		Black mf SAND, some Silt, trace Gravel and Roots.			-6
4.5				7		Gray fine SAND, little to trace Silt, trace roots.			-7
5.0				8		Brown mf SAND, little Silt.			-8
				9		Brown fine SAND, little to some Silt, little Gravel.			-9
				10		Red brown fine SAND, some Gravel and Silt.			-10

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 12/14/11
 Date Finish: 12/14/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M020

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 9.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M020-0.0				0		Black GRAVEL, little Snad, trace Silt.			
M020-1.0				1		Black GRAVEL and SAND, little Silt, trace COPR.	40% - 50% COPR		
M020-2.5		42	0.0	2		Black to dark red-brown band of SAND and SILT, some COPR, little Gravel.	25% COPR		
M020-3.0				3	1	Black to brown mf SAND, some Gravel, little Silt.			
M020-3.5				4		Black mf SAND, little Silt, trace COPR.			
				5		Gray f SAND and SILT, little brown Silt.			
				6		Red-brown f SAND, little Silt.			
				7	2	Red-brown mf SAND, some Gravel, little Silt.			
M020-7.5		60	0.0	8		Red-brown SILT and f SAND, some Gravel.			
				9					
				10	3	Red-brown f SAND, some Silt, trace Gravel, trace yellow-brown Sand.			
				11		Red-brown clayey SILT, some Gravel, little Sand.			
M020-11.5				12					
		38	0.0	13					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

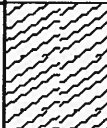






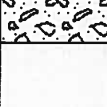
Casing Diameter: NA
Date Start: 2/11/2011
Date Finish: 2/11/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_M020

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 9.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				4					
				14					
				15		Red-brown cm SAND, trace Silt and f Sand.			
				16		Red-brown clayey SILT, some Gravel, little Sand.			
				5					
				17					
		47	0.0	18					
				19					
				6		Red-brown cf SAND, some Gravel, little Silt.			
				20		Red-brown mf SAND, some Gravel, some clayey Silt.			
				21					
		44	0.0	22					
				7					
				23					
				24		Red-brown mf SAND and GRAVEL, little Silt.			
				25		END OF BORING			
				26					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/11/2011
Date Finish: 2/11/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_M020E2_N

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
1.0-1.5				1		Brown SAND, trace Silt, trace Gravel.		-1	
1.5-2.0				2		Reddish-brown SAND and CLAY, trace Silt.		-2	
2.5-3.0				3				-3	
3.0-3.5				3		1	Red/brown GRAVEL, c Sand, trace Silt.		-3
4.0-4.5				4			Dark-brown CLAY, trace Sand, trace Silt, moist to wet.		-4
5.0-5.5				5					-5
				6			Red CLAY, some Sand.		-6
				7		2			-7
				8					-8
				9			END OF BORING		-9
				10	3			-10	

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302


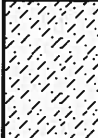








Casing Diameter: NA
 Date Start:
 Date Finish:
 Checked By: RM
 Sheet 1 of 1

Soil Boring/Well Details: 107_M020N_1

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level: ~3.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
1.0		45	188	1		Yellowish-brown sandy SILT, trace Wood, trace Roots, trace Gravel, saturated.		-1	
1.5			171	2		Brown silty SAND, little Gravel, trace Roots.		-2	
2.0			15.9	3		Reddish-brown GRAVEL, little silty Sand.		-3	
3.0			16.4	4		Reddish-brown SILT, little Gravel, saturated.		-4	
4.0			0.0	5		Reddish-brown/brown SILT, some Gravel, saturated.		-5	
5.0			24.6	6		Yellowish-brown SILT and GRAVEL, moist.		-6	
6.0		40	12.6	7		c-f GRAVEL, some reddish-brown Silt, saturated.		-7	
			5.1	8		c-f GRAVEL, some reddish-brown Silt, saturated.		-8	
			4.2	9		c-f GRAVEL, some reddish-brown Silt, saturated.		-9	
			0.0	10		c-f GRAVEL, some reddish-brown Silt, saturated.		-10	

Drilling Company: EMC, Inc.
 Driller: Mike Morse
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 07/10/12
 Date Finish: 07/10/12
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M022

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 7.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M022-0.0				1		Brown f SAND, some Silt, trace Gravel, trace Root structures.	<10% COPR		
M022-1-2.0		32	0.0	2		Black GRAVEL, little Sand, trace Silt, trace ASH.			
				3		Black ASH and CINDER fill, little Sand, trace Silt.			
M022-4.0				4		Brown SILT, some gray f Sand, little red-brown Silt, trace Ash, mottled.	WET		
M022-4.5		45	0.0	5		GRAVEL, little Sand, trace blue-green Silt.			
				6		Pale gray f SAND and SILT, little red-brown Silt, mottled.	MOIST		
				7		Red-brown SILT, little f Sand.			
M022-8.5				8		Red-brown f SAND, little Gravel, little Silt.			
				9		Red-brown SILT, little Gravel, little Sand.	MOIST		
				10		Red-brown GRAVEL, some f Sand and Silt.			
				11		Red-brown clayey SILT, some Gravel, little Sand.			
M022-12.5		23	0.0	12					
				13					
				14					
				15					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/11/2011
Date Finish: 2/11/2011
Checked By: GG
Sheet 1 of 2

Soil Boring/Well Details: 107_M022

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 7.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		58	0.0	16		Red-brown SILT, some Gravel, little Sand.	WET		
				17		Red-brown f SAND, some Silt and Gravel.			
				18		Red-brown SILT, little f Sand, trace Gravel.			
				19		Red-brown cilty CLAY, little brown Sand.	MOIST		
				20		Red-brown mf SAND, little Silt.			
				21		Red-brown mf SAND, little Silt, trace Gravel.			
		34	0.0	22		Red-brown mf SAND, little Gravel, trace Silt.			
				23		Red-brown cf SAND and GRAVEL, trace Silt.			
				24		END OF BORING			
				25					
				26					
				27					
				28					
				29					
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/11/2011
Date Finish: 2/11/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_M022_1

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level: 7.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)	
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation
1.0	37	37	13.5	1		Pale yellowish-brown SAND (TOPSOIL), little Gravel, trace Roots.			-1	
1.5				2		Brown silty SAND, little to trace Gravel.				-2
2.0				2		Black SAND and m-f GRAVEL, some to little Cinders and Coal, trace Silt.				-2
3.0				3		Greenish-brown SILT, moist.				-3
4.0				4		Greenish-brown SILT and blue CLAY, moist.				-4
5.0				5		Black SAND and f GRAVEL, some Cinders, little Coal, trace Silt.				-5
6.0				6		Yellow/pale blue/grey silty SAND, moist.				-6
				7		Reddish-brown SAND, little Silt, wet.				-7
				8						-8
				9		Reddish-brown sandy SILT, some Gravel, trace Clay, moist to saturated.				-9
	10		-10							
	48	48	16.5	2						
				7	12.4					
			107	8						
			928	9						
			78.3	3						

Drilling Company: EMC, Inc.
 Driller: Mike Morse
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302






Casing Diameter: NA
 Date Start: 07/10/12
 Date Finish: 07/10/12
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M022N_1

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level: 6.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)	
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation
1.0		40	54.7	1		Brown silty SAND, little Gravel, trace Roots, saturated.			-1	
1.5							Bluish-gray Clayey SAND, trace Silt, trace Roots, saturated.			
2.0			24.0	2			Gray Silty SAND, saturated.		-2	
3.0			7.3	3					-3	
4.0			0.0	4		Reddish-brown Silty SAND, trace Roots, trace Gravel, moist.			-4	
5.0			15.4	5		Brown Silty SAND, some Gravel, moist.			-5	
6.0			21.6	6		Reddish-brown SAND, little Gravel, wet.			-6	
		30								
				7.8	7					-7
				21.0	8		Reddish-brown Silty SAND, some to little Gravel, trace Grass, wet to moist.			-8
				10.4	9					-9
			7.4	10					-10	

Drilling Company: EMC, Inc.
Driller: Mike Morse
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 07/10/12
Date Finish: 07/10/12
Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M024

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677433.6827
Easting: 606714.9846
Elevation: 0
Total Depth: 24.0

Water Level: 21.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M024-0.0				0		TOPSOIL and GRASS			
M024-0.5				1		Reddish brown of SAND and GRAVEL, some Silt and Roots, trace Glass			
M024-2.0		38	0.0	2		Black of SAND and GRAVEL, some Silt, little Cinder, trace Glass			
M024-3.5				3					
M024-4.0				4		Brown of SAND and GRAVEL, some Silt			
M024-5.0				5					
M024-6.0				6		Brown SILT			
M024-7.5		40	0.0	7					
M024-8.0				8					
M024-9.0				9		Grey SILT and CLAY			
M024-10.0				10		Reddish brown of SAND and GRAVEL, Some Silt			
M024-11.5				11					
M024-12.0				12					
M024-13.0		6	0.0	13					
M024-14.0				14					
M024-15.0				15					

Drilling Company: EMC, Inc. Driller: Ryan Zajak Drilling Method: Geoprobe Auger Size: NA Hole Diameter: 3 inches	DRESDNER ROBIN 371 Warren Street P.O. Box 38 Jersey City, NJ 07302	Casing Diameter: NA Date Start: 2/10/2011 Date Finish: 2/10/2011 Checked By: GG Sheet 1 of 2
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Soil Boring/Well Details: 107_M024

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677433.6827
Easting: 606714.9846
Elevation: 0
Total Depth: 24.0

Water Level: 21.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		20	0.0	16 17 18 19					
				20 21					
		20	0.0	22		Brown of SAND and GRAVEL, Some Silt			
				23					
				24		End of Soil Boring @ 24.0 feet			
				25 26 27 28 29					
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/10/2011
Date Finish: 2/10/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_M024_1

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level: 6.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)				
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation			
1.0	51			1		Pale yellowish-brown SAND (TOPSOIL), trace Gravel, trace Roots.			-1				
1.5				2		Dark-brown SAND and GRAVEL.				-2			
2.0				2		Black SAND, some Gravel, little Coal and Cinders.					-3		
3.0				3		Brown Sandy SILT, little Gravel, trace Clay, trace Coal.						-4	
4.0				4		Dark-brown SILT, trace Coal, trace Clay, trace Gravel.							-5
5.0				5		Black SAND, little Coal, little f Gravel.							
6.0	6	Reddish-brown SAND, some Gravel.	-7										
	7	Greenish-brown Clayey SILT, moist to wet.		-8									
	8	Dark-brown CLAY, moist.			-9								
	9	Dark-gray SAND, little Gravel, trace Silt, saturated.				-10							
	10												

Drilling Company: EMC, Inc.
 Driller: Mike Morse
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 07/10/12
 Date Finish: 07/10/12
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M024N_1

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level: ~7'
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)	
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation
1.0	42	42	0.0	1	[Symbol: Brown Silty SAND, trace Roots, trace Plastic.]	Brown Silty SAND, trace Roots, trace Plastic.			-1	
1.5				2		[Symbol: Brown Clayey SAND, some Gravel, trace Wood, trace Roots, trace Roofing Material, trace Cinders.]				Brown Clayey SAND, some Gravel, trace Wood, trace Roots, trace Roofing Material, trace Cinders.
2.0				3	[Symbol: Brown SILT, little Gravel, trace Roots, trace Clay.]					Brown SILT, little Gravel, trace Roots, trace Clay.
2.5				4		[Symbol: Brown Sandy CLAY, trace Roots, moist.]				Brown Sandy CLAY, trace Roots, moist.
3.0				5	[Symbol: Brown CLAY, trace Gravel, trace Roots, moist.]					Brown CLAY, trace Gravel, trace Roots, moist.
4.0				6		[Symbol: Dark-brown/brown CLAY, trace Roots, moist.]				Dark-brown/brown CLAY, trace Roots, moist.
5.0	7	[Symbol: Brown Clayey SAND, trace Gravel, moist.]	Brown Clayey SAND, trace Gravel, moist.	-7						
6.0	8		[Symbol: Reddish-brown SILT, some to little Gravel, saturated.]	Reddish-brown SILT, some to little Gravel, saturated.	-8					
	9	[Symbol: Reddish-brown SILT, some to little Gravel, saturated.]		Reddish-brown SILT, some to little Gravel, saturated.	-9					
	10		3			-10				

Drilling Company: EMC, Inc.
 Driller: Mike Morse
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 07/10/12
 Date Finish: 07/10/12
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M026

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677477.0191
Easting: 606756.4816
Elevation: 0
Total Depth: 24.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M026-0.0				0		TOPSOIL and GRASS			
M026-0.5				1		Reddish brown of SAND and GRAVEL, some Silt and Roots, trace Glass			
		30	0.0	2		Black of SAND and GRAVEL, some Silt and Cinder			
				3		1	Reddish brown of SAND and GRAVEL, some Silt, trace cinder		
M026-3.0				4			Brown of SAND, some Silt, trace Gravel		
M026-4.0				5			Brown SILT, some mf Sand		
		46	0.0	6		2			
				7					
				8					
M026-8.0				9			Grey SILT and CLAY, some mf Sand		
				10		3			
				11					
M026-12.0				12		Reddish brown of SAND and GRAVEL, Some Silt			
		54	0.0	13	4				
				14					
				15					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302



Casing Diameter: NA
Date Start: 2/10/2011
Date Finish: 2/10/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_M026

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677477.0191
Easting: 606756.4816
Elevation: 0
Total Depth: 24.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		48	0.0	16		ROCK			
				17					
				18		Reddish brown mf SAND and GRAVEL, Some Silt			
				19					
				20					
				21					
		24	0.0	22					
				23					
				24		End of Soil Boring @ 24.0 feet			
				25					
				26					
				27					
				28					
				29					
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/10/2011
Date Finish: 2/10/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_M026E1

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level: 2.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)									
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation								
0.5	46			1		Red-brown SILT, little f Sand, little to trace Gravel.			-1									
1.0				2		Black of SAND, some Gravel, trace Ash, Cinders, trace Silt, trace Glass.				trace COPR	-2							
1.5				3		Orange-brown to red-brown f SAND, little Silt, little Gravel, trace COPR, wet.						-3						
2.0				4		Yellow-brown cm SAND, trace Gravel, trace COPR.							-4					
2.5				5		Orange-brown SILT, trace Sand.								-5				
3.0				6		Black of SAND and GRAVEL, some Ash and Cinders, trace Slag, trace Silt.									-6			
3.5				7		Brown SILT, some f Sand, trace Gravel.										-7		
4.0				8		Gray clayey SILT, little f Sand, trace Gravel.											-8	
4.5				9		Brown silty CLAY, little f Sand, trace Gravel.												-9
5.0				10		Brown clayey SILT, little f Sand.												
6.0	REP 121211-4	42																

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 12/12/11
 Date Finish: 12/12/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M026E2

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
0.5	46	0.0	0.0	1		Brown SILT, trace f Sand, trace Roots, trace Gravel. Dark red-brown of SAND, some COPR, trace Gravel, trace Silt.	some COPR (70%) trace Hexavalent Chromium		-1
1.0				2		Brown SILT, trace f Sand, trace Gravel, wet.			-2
1.5				3		Brown c SAND, little Silt, little Gravel.			-3
2.0				4		Black cf SAND, little Gravel, trace Silt, trace Ash and Cinders.			-4
2.5				5		Brown to Red-brown f SAND, some Silt, little Gravel.			-5
3.0				6		Brown to gray clayey SILT, little f Sand, moist.			-6
3.5				7		Gray f SAND and SILT, trace Gravel.			-7
4.0				8		Brown silty CLAY, trace Sand, trace Gravel.			-8
4.5				9		Gray to brown silty CLAY, some Silt, trace Gravel.			-9
5.0				10					-10
6.0	41	0.0	0.0	2		Gray f SAND and SILT, trace Gravel.			
REP 121211-3				3		Brown silty CLAY, trace Sand, trace Gravel.			
				3		Gray to brown silty CLAY, some Silt, trace Gravel.			

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 12/12/11
 Date Finish: 12/12/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M026E2_N

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)		
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation	
0.5-1.0		36		1		Brown sandy GRAVEL, trace Silt, moist.	NO CORP found		-1		
1.5-2.0				2						Dark-brown CLAY, some Silt, moist.	-2
2.5-3.0				3							1
3.5-4.0		4	2	Gray CLAY, some Silt, moist.	-4						
4.5-5.0		5			3	Gray CLAY, some Silt, moist.				-5	
5.5-6.0		6	2	Gray CLAY, some Silt, moist.						-6	
6.5-7.0		7			3	Gray CLAY, some Silt, moist.				-7	
		8	3	Gray CLAY, some Silt, moist.						-8	
		9			3	Gray CLAY, some Silt, moist.				-9	
		10	3	Gray CLAY, some Silt, moist.						-10	

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start:
 Date Finish:
 Checked By: RM
 Sheet 1 of 1

Soil Boring/Well Details: 107_M026N

Project No: 10236-1

Project: Block 107

Client:

Location: Jersey City, NJ

Northing: 0

Easting: 0

Elevation: 0

Total Depth: 8.5

Water Level:

Sampling Method: Geoprobe

Sample Interval: See Log

Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
0.5				1		Brown mf SAND, some Silt, trace Gravel, little Roots.			-1
1.0						GRAVEL, little black Sand, Ash and Cinders, trace Silt.			
1.5				2		Brown f SAND, some Silt, trace Gravel.			-2
2.0						Red-brown f SAND, some Gravel and Silt.			
2.5		42		3		Brown f SAND, some Silt, trace Gravel.			-3
3.0				4		Brown to gray Silty Clay, trace to little f Sand.			-4
3.5				5					-5
4.0				6					-6
4.5				7		Brown to blue SILT, little f Sand, mottled.			-7
5.0				8					-8
6.0		38		9					-9
				10					-10

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 12/13/11
 Date Finish: 12/13/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M028

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677520.3555
Easting: 606797.9786
Elevation: 0
Total Depth: 24.0

Water Level: 14.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M028-0.0				0		TOPSOIL and GRASS			
M028-0.5				0.5			trace COPR		
M028-1.0				1		Light brown SILT, some of Sand, trace Gravel			
		52	0.0	2		Black of SAND and GRAVEL, some Silt, little Cinder			
				3	1	Brown of SAND and GRAVEL, some Silt			
M028-3.5				3.5		Brown of SAND and GRAVEL, some Silt			
				4		Brown of SAND, some Silt, trace Gravel			
				5					
				6		Brown SILT			
		48	0.0	7	2				
M028-7.5				7.5					
				8					
				9					
				10	3	Grey SILT and CLAY		MOIST	
				11					
M028-11.5				11.5		Light brown SILT and CLAY, some Gravel			
		60	0.0	12					
				13	4	Reddish brown of SAND and GRAVEL, some Silt			
				14					
				15					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/10/2011
Date Finish: 2/10/2011
Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_M028

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677520.3555
Easting: 606797.9786
Elevation: 0
Total Depth: 24.0

Water Level: 14.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		58	0.0	16 17 18 19					
		46	0.0	20 21 22					
				23					
				24					
				25					
				26					
				27					
				28					
				29					
				30					
						End of Soil Boring @ 24.0 feet			

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/10/2011
Date Finish: 2/10/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_M028E2

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 3.0

Water Level: 1.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
0.0	31	0.0	0.0	1		Brown to dark brown mf SAND and SILT, trace Roots, trace Gravel.	trace COPR		-1
0.5						Brown mf SAND, trace Gravel, trace Silt.			
1.0						Red-brown GRAVEL, little Sand and Silt.			
1.5						Orange-brown to red-brown f SAND, trace Gravel, trace COPR, wet.			
2.0						Black cm SAND, trace Gravel, trace Ash.			
2.5						Red-brown mf SAND, some Silt and Gravel.			
3.0									
				2					
				3					
				4					
				5					
				6					
				7					
				8					

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 12/12/11
 Date Finish: 12/12/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M028W

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 4.0

Water Level: 1.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)		
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation	
0.0						Brown SILT, little Sand, trace Gravel, trace Roots, trace COPR.		trace COPR	-1		
0.5				1		Red-brown c SAND, some Silt, trace Gravel, trace to little COPR.		little to trace COPR			
1.0						Brown SILT, little f Sand, trace Gravel.				-1	
1.5											
2.0	46		0.0	2							-2
2.5						Black cf SAND, little Gravel, trace Ash and Cinders, trace Slag, trace Cinders, wet.					-3
3.0				3		Red-brown f SAND, some Gravel, little to trace Silt, (Till).					-3
REP 121211-2				4	Gray to brown f SAND and SILT, trace Gravel, wet.			-4			
				5				-5			
				6				-6			

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 12/12/11
 Date Finish: 12/12/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M030

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677563.6919
Easting: 606839.4756
Elevation: 0
Total Depth: 24.0

Water Level: 15.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M030-0.0						TOPSOIL and GRASS			
M030-0.5				1		Reddish brown cf SAND and GRAVEL, some Silt, trace Cinder			
M030-2.5		43	0.0	2					
M030-3.5				3					
M030-3.5				4			Brown mf SAND, some Silt, trace Gravel		
M030-7.5		43	0.0	5		Brown SILT, some mf Sand, trace Gravel			
M030-7.5				6					
M030-7.5				7					
M030-11.5				8		Brown to grey SILT and CLAY			
M030-11.5				9					
M030-11.5				10					
M030-11.5				11					
M030-11.5		54	0.0	12		Reddish brown cf SAND, some Silt			
M030-11.5				13					
M030-11.5				14					
M030-11.5				15					

Drilling Company: EMC, Inc. Driller: Ryan Zajak Drilling Method: Geoprobe Auger Size: NA Hole Diameter: 3 inches	DRESDNER ROBIN 371 Warren Street P.O. Box 38 Jersey City, NJ 07302	Casing Diameter: NA Date Start: 2/10/2011 Date Finish: 2/10/2011 Checked By: GG Sheet 1 of 2
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Soil Boring/Well Details: 107_M030

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677563.6919
Easting: 606839.4756
Elevation: 0
Total Depth: 24.0

Water Level: 15.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		53	0.0	16 5		Reddish brown of SAND and GRAVEL, some Silt			
				17 18 19				WET	
		56	0.0	20 6		Reddish brown mf SAND and GRAVEL, some Silt			
				21 22 23 7				SATURATED	
				24		End of Soil Boring @ 24.0 feet			
				25 26 27 28 29 9					
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/10/2011
Date Finish: 2/10/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_M030E2

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 4.0

Water Level: 3.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)	
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation
0.0	48	0.0	0.0	1		Black to dark brown of SAND, little Gravel and Silt, trace Roots, trace red Brick.			-1	
0.5						Black of SAND and GRAVEL, trace Silt, trace Ash and Cinders.				trace COPR and Hexavalent Chromium
1.0						Orange-brown and gray of SAND, little Gravel, trace to little Silt, trace Coal.				
1.5						Orange-brown and Gray of SAND, some to little Silt, little to trace Gravel.				
2.0						Orange-brown SILT, little f Sand, trace Gravel, wet.				
2.5						Brown SILT, little to some f Sand, trace Gravel, moist.				
3.0										
3.5										
4.0										
REP 121211-1				2					-5	
									-6	
									-7	
									-8	

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 12/12/11
 Date Finish: 12/12/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 107_M032

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677607.0283
Eastng: 606880.9726
Elevation: 0
Total Depth: 24.0

Water Level: 10.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M032-0.0				0		Black of SAND and GRAVEL, some Silt, little Cinder, trace Glass			
M032-0.5				0.5					
				1					~20% COPR
M032-1.5		43	0.0	1.5			Reddish brown of SAND and GRAVEL, some Silt and Sandstone		
				2					
M032-3.0				3					
				3.5			Brown SILT, some mf Sand, little Gravel		
				4					
				5					
				6					
M032-7.0		43	0.0	7					MOIST
				8					
				9					
				10					
M032-11.0				11					
				11.5		Grey SILT and CLAY			
		54	0.0	12					
				13		Reddish brown of SAND and SANDSTONE, little Clay			
				14					
				15					

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302


Casing Diameter: NA
 Date Start: 2/10/2011
 Date Finish: 2/10/2011
 Checked By: GG
 Sheet 1 of 2

Soil Boring/Well Details: 107_M032

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677607.0283
Easting: 606880.9726
Elevation: 0
Total Depth: 24.0

Water Level: 10.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		53	0.0	16 17 18 19 20 21					
		56	0.0	20 21 22					
				23			Reddish brown of SAND and GRAVEL, some Silt		SATURATED
				24			End of Soil Boring @ 24.0 feet		
				25					
				26 27 28 29					
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 2/10/2011
Date Finish: 2/10/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 107_MO34N

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 5

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
				1		Brown fine SAND and SILT, little Gravel, trace roots.			-1
				1		Black GRAVEL, ASH, and CINDER, trace Sand, Silt, Glass, Slag.			
				2		Red brown fine SAND, some Silt, little to trace Gravel.			
				2		Red brown fine SAND, some Gravel, little Silt (gravel layer 1.5-1.8).			-2
		36	0.0	3					-3
3.0				3					-3
				4		Red brown SILT, some Gravel, little brown fine Sand.			-4
3.5				4					-4
4.0				5					-5
4.5				5					-5
5.0				5					-5

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302


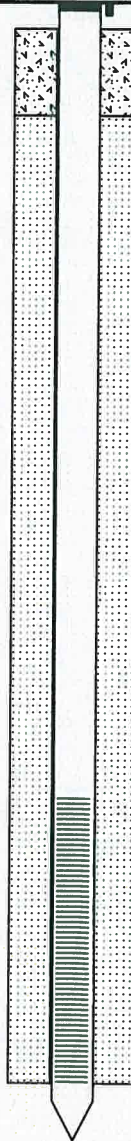




Casing Diameter: NA
 Date Start: 12/13/11
 Date Finish: 12/13/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 108_M006 / MW-08

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677043.6551
Easting: 606341.5118
Elevation: 0
Total Depth: 20.0

Water Level: 15.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M006-0.0	24	0.0	0.0	1		TOPSOIL			
				2		Black to brown SILT, some Gravel and cf Sand			
				3					
				4					
M006-4.0	45	0.0	0.0	5		Orange brown SAND and GRAVEL, some Silt			
				6					
				7					
				8					
M006-8.0	40.5	0.0	0.0	9			WET		
				10					
				11					
				12					
M006-12.0	32	0.0	0.0	13		Orange brown cf SAND and GRAVEL, some Silt	MOIST		
				14		Orange brown cf SAND and GRAVEL, some Silt			
				15					
				16					
	17			18		Coarse GRAVEL and orange brown SILT, some cf Sand	SATURATED		
	19								
	20								
				20		REFUSAL @ 20.0 FEET	WET		

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

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Casing Diameter: NA
 Soil Boring Date: 2/23/2011
 Monitoring Well Date: 7/12/2012
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 108_M008

Project No: 10236-1
Project: Site 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 18.0

Water Level: 11.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JPV

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M008-0.0				1		TOPSOIL			
		28	0.0	2		Brown to black of SAND, some Silt and Gravel, trace Glass and Cinder			
				3					
				4					
M008-4.5				5					
				6		Light brown of SAND, some Silt and Gravel, trace Glass and Cinder			
		32	0.0	7					
				8					
M008-8.5				9		Coarse GRAVEL		MOIST	
				10		Light brown of SAND, some Silt and Gravel			
				11		Coarse GRAVEL			
				12		Brown of SAND, some Gravel			
M008-12.5				13					
		37	0.0	14					
				15					
				16					
		29	0.0	17					
				18					
				19		REFUSAL @ 18.0 FEET			
							WET		

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

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Casing Diameter: NA
Date Start: 02/17/11
Date Finish: 02/17/11
Checked By: GG
Sheet 1 of 1

Soil Boring/Well Details: 108_M010

Project No: 10236-1
Project: Site 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 20.0

Water Level: 5.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JPV

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M010-0.0				1		TOPSOIL			
				1		Brown cf SAND, some Gravel, trace Cinder			
				2		Black cf SAND			
M010-2.0		27	0.0	3		Light brown SILT, some of Sand			
				4					
				5				MOIST	
M010-6.0				6					
				7					
		24	0.0	8		Coarse GRAVEL			
				9		Light brown cf SAND, some Silt and Gravel			
				10					
M010-10.0				11		Yellow brown SILT, some of Sand and Gravel			
				12					
		33	0.0	13		Reddish brown SILT, some of Sand and Gravel		WET	
				14					
				15	Light brown cm SAND and GRAVEL				

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

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Casing Diameter: NA
Date Start: 02/17/11
Date Finish: 02/17/11
Checked By: GG
Sheet 1 of 2

Soil Boring/Well Details: 108_M010

Project No: 10236-1
Project: Site 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 20.0

Water Level: 5.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JPV

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		23	0.0	5	[Hatched Pattern]	Light brown of SAND, some Silt			
				6		REFUSAL @ 20.0 FEET			
				7					
				8					
				9					
				16					
				17					
				18					
				19					
				20					
				21					
				22					
				23					
				24					
				25					
				26					
				27					
				28					
				29					
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

DRESDNER ROBIN
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Casing Diameter: NA
Date Start: 02/17/11
Date Finish: 02/17/11
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 108_M012

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 22.0

Water Level: 11.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JPV

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M012-0.0	29	29	0.0	0		TOPSOIL	MOIST		
			0.3	1		Brown of SAND and GRAVEL, some Silt, trace Wood and Brick			
			0.5	2		Reddish brown of SAND, some Silt and Gravel			
				3		Black of SAND, some Silt and Gravel, trace Roots			
M012-3.5			0.0	4		Reddish brown of SAND, some Silt and Gravel, trace Cinder			
M012-5.5	44	44	0.0	5		Reddish brown SILT, some Clay	MOIST		
				6					
				7					
				8					
M012-9.5	34	34	0.0	9		Reddish brown of SAND, some Silt and Gravel	MOIST		
				10					
				11					
M012-13.5	34	34	0.0	12		Yellow cm SAND, some Gravel			
				13					
				14					
				15					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

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Casing Diameter: NA
Date Start: 2/17/2011
Date Finish: 2/17/2011
Checked By: GG
Sheet 1 of 2

Soil Boring/Well Details: 108_M012

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 22.0

Water Level: 11.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JPV

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		60	0.0	16		Reddish brown of SAND, some Silt and Gravel		WET	
				17					
				18					
				19					
				20					
		24	0.0	21					
				22	REFUSAL @ 22.0 FEET				
				23					
				24					
				25					
				26					
				27					
				28					
				29					
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

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Casing Diameter: NA
Date Start: 2/17/2011
Date Finish: 2/17/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 108_M014

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 15.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M014-0.0		32	0.0	0		TOPSOIL			
			0.5	1		Black/grey of SAND and GRAVEL, some Silt, trace Glass, Wood and Cinder			
			0.4	2		Orange brown of SAND and GRAVEL, some Silt, little Cinder, trace Wood			
			0.0	3					
			0.0	4					
			0.0	5					
			0.0	6		GRAVEL, some brown of Sand, little Silt, trace Cinder			
			0.0	7		Orange brown of SAND and GRAVEL, some Silt, trace Cinder			
			0.0	8					
			0.0	9					
M014-10.0				10	3				
				11		GRAVEL			
				12					
		7	0.0	13	4	Orange brown of SAND and GRAVEL, some Silt			
				14					
				15					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

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Casing Diameter: NA
Date Start: 2/16/2011
Date Finish: 2/16/2011
Checked By: GG
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Soil Boring/Well Details: 108_M014

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 15.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		13	0.0	16					
				17					WET
				18					
				19					MOIST
				20					
		48	0.0	21					WET
				22					
				23				SATURATED	
				24		END OF BORING			
				25					
				26					
				27					
				28					
				29					
				30					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

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 Jersey City, NJ 07302

















Casing Diameter: NA
Date Start: 2/16/2011
Date Finish: 2/16/2011
Checked By: GG
Sheet: 2 of 2

Soil Boring/Well Details: 108_M016

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 15.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
M016-0.0				1		TOPSOIL			
				1		GRAVEL and brown to grey of SAND, some Silt, trace Cinder			
				2		BRICK			
		25	0.0	3		Brown of SAND and GRAVEL, some Silt, little Brick, trace Cinder			
M016-3.5				4		Black of SAND and GRAVEL, some Silt, little Cinder, trace Brick			
				5		Black SILT, some mf Sand, trace Wood, Cinder and lime colored soft artificial solid			
M016-5.5				6		Black SILT, some mf Sand, trace Wood and Cinder		WET	
		43	0.0	7		Black SILT, some mf Sand			
				8		Orange brown of SAND and GRAVEL, some Silt			
				9					
M016-9.5				10					
				11		Orange brown of SAND, some Gravel and Silt		MOIST	
		42	0.0	12					
				13					
M016-13.5				14					
				15					

Drilling Company: EMC, Inc. Driller: Ryan Zajak Drilling Method: Geoprobe Auger Size: NA Hole Diameter: 3 inches	DRESDNER ROBIN 371 Warren Street P.O. Box 38 Jersey City, NJ 07302	Casing Diameter: NA Date Start: 2/16/2011 Date Finish: 2/16/2011 Checked By: Sheet 1 of 2
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Soil Boring/Well Details: 108_M016

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 24.0

Water Level: 15.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				16					
		60	0.0	17		Orange brown SILT and GRAVEL, some of Sand and Clay		WET	
				18					
				19					
				20		6	Orange brown of SAND and GRAVEL, some Silt		
		12	0.0	21					
				22					
				23	7				
				24		END OF BORING			
				25					
				26	8				
				27					
				28					
				29					
				30	9				

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3 inches

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 371 Warren Street
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Casing Diameter: NA
Date Start: 2/16/2011
Date Finish: 2/16/2011
Checked By:
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Soil Boring/Well Details: 108_M016_1

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level: ~4.5'
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
			9999			CONCRETE and black SAND, trace Cinders.			
1.0			9999	1		Dark-brown SAND, some c-f Gravel, trace Wood, trace Cinders, trace Silt.	trace COPR		-1
1.5			896						
2.0			985	2		Light-gray GRAVEL, some Sand.			-2
		32	285						
3.0			120	3		Black SAND, some Gravel, little Silt, trace Coal, trace Cinders.			-3
			117						
4.0			119	4		Brown SILT, little Gravel, saturated.			-4
			175						
5.0			75.8	5		Dark-brown SAND and m-f GRAVEL, little Cinders, trace Coal.			-5
			191						
6.0			38.1	6	Brown Sandy SILT and blue CLAY, some Gravel, moist.			-6	
			56.2						
			57.3	7	Reddish-brown Sandy SILT and GRAVEL, trace Coal.			-7	
		39							
			38.5	8	Yellowish-brown GRAVEL and SAND, little Silt.			-8	
			21.0	9	Reddish-brown Sandy SILT, some Gravel.			-9	
			29.0	10				-10	

Drilling Company: EMC, Inc.
 Driller: Mike Morse
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

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 Jersey City, NJ 07302


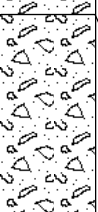


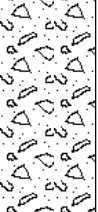
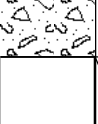
Casing Diameter: NA
 Date Start: 07/10/12
 Date Finish: 07/10/12
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 108_M018

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 677303.6735
Easting: 606590.4937
Elevation: 0
Total Depth: 24.0

Water Level: 17.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)		
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation	
M018-0.0		48	0.0	1		TOPSOIL		30% COPR			
				2		Black of Sand and GRAVEL, little Concrete, trace Cinder		30%-60% COPR			
M018-3.5				3		1					WET
M018-4.0				4							
	5	30	0.0	5		Brown SILT and GRAVEL, some of Sand		MOIST			
	6			Orange brown of SAND and GRAVEL, some Silt							
M018-8.0	7			2							
	8										
	9	57	0.0	9							
	10			3							
M018-12.0	11										
	12										
	13	56	0.0	13							
	14			4							
	15			5							
	16			5							
	17	48	0.0	17							
	18			6							
	19			6							
	20			6							
	21			21							
	22			7							
	23			7							
	24			7							
	25			25		END OF BORING		WET			

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

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Casing Diameter: NA
 Date Start: 2/23/2011
 Date Finish: 2/23/2011
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 108_M018C

Project No: 10236-1
Project: Block 107
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By:

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		37	0.0	1		CONCRETE and GRAVEL.			
				2		Reddish-brown of SAND, some Gravel and Silt, trace Wood and Cinder.	20% COPR		
				3			10% COPR		
				4			trace COPR		
				5		Dark-brown of SAND and GRAVEL, some Silt, trace Cinder, organic Material and Rubber.	25% COPR		
		45	0.0	6		Reddish-brown mf SAND and GRAVEL, some Silt.			
				7			MOIST		
				8					
				9					
				10	3	END OF BORING			
				11					

Drilling Company: EMC, Inc.
Driller: Ryan Zajak
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter:

DRESDNER ROBIN
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Casing Diameter: NA
Date Start: 8/16/2011
Date Finish: 8/16/2011
Checked By: GG
Sheet 1 of 1

Soil Boring/Well Details: 108_MO18N

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
				1		Brown mf SAND, some Silt, little Gravel, trace Roots.		-1	
1.0		44		2		Black cf SAND and GRAVEL, trace Silt.		-2	
1.5				3		CONCRETE, little Sand.		-3	
2.0				4		Dark gray brown cf SAND, little Gravel, trace Silt and COPR.		-4	
3.0				5		Dark gray mf SAND, some Gravel, trace COPR and Silt, moist.		-5	
3.5				6		Black mf SAND, some Silt, little Gravel, trace Plastic, Ash, Wood, and COPR.		-6	
4.0				7		Brown gray fine SAND, some Silt, little Gravel, trace yellow Silt (chrome?)		-7	
4.5				8		Red brown fine SAND and SILT, little to some Gravel.		-8	
5.0				9		Red brown GRAVEL, some Sand, little Silt.		-9	
			25			10			-10
					11				-11

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

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Casing Diameter: NA
 Date Start: 12/14/11
 Date Finish: 12/14/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 108_M018N_1

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 5.0

Water Level: ~3.5'
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)	
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation
		41		107		Pale yellowish-brown SAND (TOPSOIL), some Gravel, little Roots.			-1	
				1		CONCRETE.				
				53.5		2	Black c-f SAND, some m-f Gravel, little Cinders and Coal, trace reddish-brown Silt.			-2
				30.7		3	Black silty SAND, little Gravel, little Cinders, trace Coal, saturated.			-3
				875		4	Reddish-brown Silty SAND, little Gravel, trace to little Cinders, trace Coal.			-4
				161	5				-5	
				6					-6	
				7					-7	
				8					-8	

Drilling Company: EMC, Inc.
 Driller: Mike Morse
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

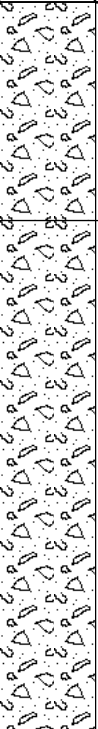
Casing Diameter: NA
 Date Start: 07/10/12
 Date Finish: 07/10/12
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 108_M018N_2

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 7.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
				1		Brown c SAND, some Gravel, trace Silt, moist.			-1
1.5-2.0				2		Brown/red c SAND and GRAVEL.	REP collected		-2
2.0-2.5				3					-3
3.0-3.5				4					-4
4.0-4.5				5					-5
5.0-5.5				6					-6
				7		Red/brown c SAND, trace Gravel, trace Silt.			-7
				8		END OF BORING			-8

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start:
 Date Finish:
 Checked By: RM
 Sheet 1 of 1

Soil Boring/Well Details: 108_MO18W1

Project No: 10236-1

Northing: 0

Water Level:

Project: Block 108

Easting: 0

Sampling Method: Geoprobe

Client:

Elevation: 0

Sample Interval: See Log

Location: Jersey City, NJ

Total Depth: 10.0

Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)								
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation							
0.5	26			1		Gray black GRAVEL, little Sand, trace Silt and Wood.			-1								
1.0						Black of SAND, some Gravel, trace Silt and COPR.				-2							
1.5						Brown of SAND, some Silt, little Gravel, trace COPR.					-3						
2.0												-4					
2.5													-5				
3.0														-6			
3.5															-7		
4.0																-8	
4.5																	-9
5.0																	
	45		2		Black fine SAND, some Silt.												
					Gray brown mf SAND, some Clayey Silt, trace Gravel.												
					Red brown mf SAND, some Gravel, little Silt.												
			3		Red brown fine SAND, some Gravel, little Silt.												
					Red brown fine SAND, some Silt, little to some Gravel.												

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 12/14/11
 Date Finish: 12/14/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 108_MO18W2

Project No: 10236-1
Project: Block 108
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 10.0

Water Level: 2.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: GG

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
0.5	48	48	0.9	1		GRAVEL, little Sand, trace Silt.			-1
1.0				Black cf SAND and GRAVEL, trace Silt, trace COPR.		-2			
				Dark red brown cf SAND, little Gravel and Silt, trace COPR.		-3			
3.0				Orange brown SILT, trace fine Sand, trace Gravel, wet.		-4			
4.0				Red fine SAND, some Silt, trace Gravel, wet.		-5			
4.5				Wood.		-6			
5.0				Black mf SAND, some Silt, trace Gravel, trace Plastic, trace Roots, trace Cinders, wet.		-7			
				Brown fine SAND, some Silt, little Gravel, wet.		-8			
				Red brown fine SAND, some Silt, little Gravel, wet..		-9			
						-10			
	25		1.7	2					
				3					

Drilling Company: EMC, Inc.
 Driller: Ryan Zajack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3 inches

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 12/14/11
 Date Finish: 12/14/11
 Checked By: GG
 Sheet 1 of 1

Soil Boring/Well Details: 108_M018W2_3

Project No: 10236-2
Project: PPG Conrail
Client: PPG Industries
Location: Jersey City, NJ

Northing: 0
Easting: 0
Elevation: 0
Total Depth: 5.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Elena DeFeo

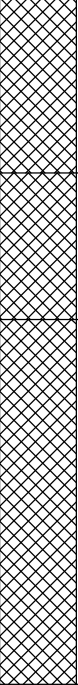
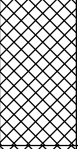
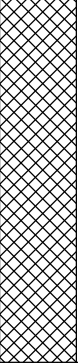


SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
				1		Dark-brown/tan GRAVEL and SAND.			-1
2.0-2.5				2		Dark-brown/black SILT, trace Clay, trace Sand.			-2
3.0-3.5				3		Dark-brown CLAY, trace Silt, moist.			-3
4.0-4.5				4					-4
5.0-5.5				5					-5
				6		END OF BORING			-6
				7					-7
				8					-8

Drilling Company: EMC, Inc.
 Driller: Ryan Zajak
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter:

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start:
 Date Finish:
 Checked By: RM
 Sheet 1 of 1

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/24/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/24/2022	Core Size: Test Pit	Boring Total Depth: 4.1 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

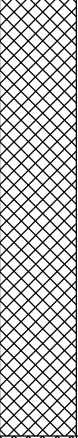
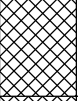
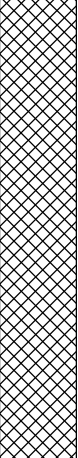

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
					FILL		DGA	
1					FILL		6 in layer of fine brown to black medium sand, moist, 5% slag, some ash, coal fragments, wood fragments	
2					FILL		15 inch layer of 50% slag, some coal, ash/cinders, angular gravel, brown fine to medium sand *Note that trace COPR (3 nodules) was observed within this fill layer along the western sidewall and was removed prior to backfill.	CONRAIL-TP-1-SW-N-C
3					ML		15 inch layer of mottled UND varying in color, dark brown to orange to light tan, 6-8 inch round cobbles	
4					ML		6 inch layer of mottled UND varying in color, dark brown to orange to light tan, 6-8 inch round cobbles	CONRAIL-TP-1-3.6-4.1

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Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
 DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 4 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0 - 1					FILL		DGA	
1 - 2		0.0			FILL		Brownish black fine to medium sand, 5% slag, small angular gravel and some ash and coal	CONRAIL-TP-2-N-SW-C CONRAIL-TP-2-S-SW-C
2 - 3					FILL		17 inch layer of ash/cinders, 50% slag, some coal, angular gravel, brown fine to medium sand	CONRAIL-TP-2-1.5-2.0
3 - 4					ML		7 inch layer of mottled UND varying in color, dark brown to orange to light tan, 6-8 inch round cobbles	CONRAIL-TP-2-3.5-4.0
4 - 4								

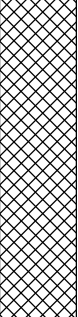
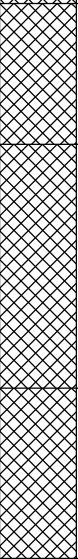

*Note that trace COPR (2 nodules) was observed in the northern test pit sidewall within the top 4-inch layer. An additional COPR nodule was observed in sloughed sidewall material from an unknown depth. The observed COPR nodules were removed prior to backfill.

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Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 3.5 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88





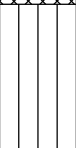
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1					FILL		DGA	CONRAIL-TP-3-S-SW-C
							*Note that trace COPR (5 nodules) was observed in the southern test pit sidewall within the top 6-inch fill layer. The observed COPR nodules were removed prior to backfill.	CONRAIL-TP-3-N-SW-C
2					FILL		6 inch layer of reworked UND	CONRAIL-TP-3-1-1-1.6
					FILL		10 inch layer of black sand, slag, coal, etc	
					FILL		7 inch layer of historic fill, ash	
3					ML		UND	CONRAIL-TP-3-3-0-3.5 CONRAIL-TP-3-S

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DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 3.7 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88





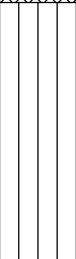
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0 - 1					FILL		DGA	
1 - 2					FILL		9.5 inch layer of ash/cinders, 50% slag, some coal, angular gravel, brown fine to medium sand	CONRAIL-TP-4-1-1-1.6
2 - 3					FILL		5 inch layer of black fine to medium sand with medium angular gravel	
3 - 4					FILL		9 inch layer historic fill, ash layer, 80% slag, fine to medium dark brown sand, some cinders and coal, large 6-8 inch slag, blue coloration.	
4 - 5					ML		6 inch layer UND	CONRAIL-TP-4-3-2-3.7

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Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
 DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/24/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/24/2022	Core Size: Test Pit	Boring Total Depth: 3.3 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88




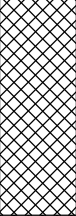

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1			Moist		FILL		4 inch layer of DGA	
			Moist		FILL		7 inch layer of light brown to tan fine to medium sand, small brick fragments, small angular gravel	
			Moist		FILL		8 inch layer of brown to black fine to medium sand, small angular gravel	
			Moist		FILL		10 inch layer of 50% slag, some coal, ash/cinders, angular gravel, brown fine to medium sand	
2			Moist		ML		7 inch layer of mottled UND varying in color, dark brown to orange to light tan	
3								CONRAIL-TP-5-2.8-3.3

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 DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 3.5 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

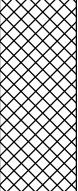
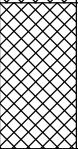
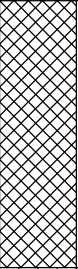

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1					FILL		DGA	
					FILL		3.5 inch layer of light brown fine to medium sand, trace coal, 5-10% slag, ash, some brick pieces, small angular gravel	
					FILL		3 inch layer of black fine to medium sand, some large angular gravel, some silt, little coal	
					FILL		9 inch layer of ash, 5-10% slag, fine to medium dark brown sand with ash, coal	
2					FILL		19 inch layer of UND interbedded with 5-10% slag, ash, coal fragments, small angular gravel	
3								CONRAIL-TP-6-3.0-3.5

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 DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/24/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/24/2022	Core Size: Test Pit	Boring Total Depth: 3.3 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

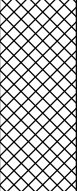
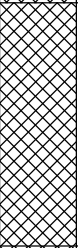
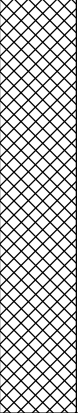

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1					FILL		8 inch layer of DGA	
					FILL		6 inch layer of brownish black fine to medium sand, 5% slag	
					FILL		11 inch layer of ash/cinders	
2					ML		10 layer of mottled UND	CONRAIL-TP-7-2.8-3.3
3								

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Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
 DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/24/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/24/2022	Core Size: Test Pit	Boring Total Depth: 3.33 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruitter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88





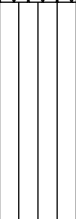
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
					FILL		8 inch layer of DGA	
1					FILL		10 inch layer of black to brown fine to medium sand with gravel	
2					FILL		17 inch layer of ash	
3					ML		5 inch layer of mottled UND	
								CONRAIL-TP-8-2.3-2.8

PPG - 2012-09 RA PPG_LOGS_A_GDT - 5/15/24 09:56

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
 DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:



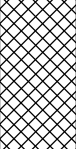
Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/11/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/11/2022	Core Size: Test Pit	Boring Total Depth: 3.3 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1					FILL		DGA	
					FILL		Light brown fine to medium sand, little angular gravel, trace brick fragments	
					FILL		Historic fill, ash, 10% slag, cinders, 10% coal, 3 inches below fine to medium sand, angular rock	
					FILL		Fine to medium sand, angular rock	
2					ML		9 inche layer of mottled UND varying in color, dark brown to orange to light tan, 6-8 inch round cobbles. Timber fragments and water observed at base of test pit	
3								CONRAIL-TP-9-2.8-3.3 CONRAIL-TP-9-S

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
 DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments:

Project Name: Site 108 Conrail	Drilling Company: AWT	Top of PVC Elevation: ft NAVD88
Project Number: 60709343	Drilling Method: Excavator	Coordinates (NJSPNAD83) x:
Date Started Drilling: 9/24/2022	Rig Type:	Coordinates (NJSPNAD83) y:
Date Finished Drilling: 9/24/2022	Core Size: Test Pit	Boring Total Depth: 2.4 ft
Logged By: Laura Kinsey	Project Manager: Aimee Ruiter	Well Diameter (inches):
Physical Location:		Surface Elevation: ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1					FILL		6 inch layer of DGA	
					FILL		6 inch layer of fine to medium black sand, 5% slag, angular rock	
					FILL		9 inch section in Southern and Northern parts of West Sidewall: gray to blue historic fill, ash, slag (50%) 17 inch layer (11 inch wide in between gray to blue historic fill) black fine to medium sand, extending to bottom of test pit	
2								CONRAIL-TP-10-1.9-2.4

Notes: bgs = below surface grade NAD83 = North American Horizontal Datum of 1983 NJSP = New Jersey State Plane ppm = parts per million ft = feet
DGA = dense graded aggregate NAVD88 = North American Vertical Datum of 1988 PID = photoionization detector USCS = Unified Soil Classification System in = inches

Comments: